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› [Swellpro](#) /

› [Swellpro FD1 FPV Bundle Fishing Drone User Manual](#)

Swellpro FD1

Swellpro FD1 FPV Bundle Fishing Drone User Manual

Model: FD1 | Manufacturer: Swellpro



1. INTRODUCTION

This manual provides essential instructions for the safe and effective operation of your Swellpro FD1 FPV Bundle Fishing Drone. The FD1 is a waterproof fishing drone equipped with a 4K camera, GPS functionality, and a payload release mechanism, designed for fishing and marine applications. Please read this manual thoroughly before operating the drone to ensure proper setup, usage, and maintenance.

2. PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- FD1 Fishing Drone
- Remote Control
- 4K Camera (integrated or separate, depending on bundle)
- Payload Release Mechanism
- Battery (Lithium Polymer, required but may be sold separately)
- Charger (if included with battery)
- User Manual (this document)



Image 2.1: Key components of the Swellpro FD1 FPV Bundle. This image displays an orange drone component with two antennas, a small grey box labeled "VIDEO LINK" with a digital display, and a black camera unit mounted on a gimbal bracket.

3. SAFETY GUIDELINES

Adherence to these safety guidelines is crucial for preventing damage, injury, or legal issues.

- **Pre-Flight Check:** Always inspect the drone, propellers, battery, and remote control for any damage before each flight.
- **Battery Safety:** Use only approved batteries and chargers. Do not overcharge or puncture batteries. Store batteries in a cool, dry place.
- **Flight Environment:** Operate the drone in open areas, away from people, animals, buildings, and power lines. Avoid flying in strong winds or adverse weather conditions.
- **Waterproof Operation:** While the drone is waterproof, ensure all ports and battery compartments are securely sealed before water exposure. Rinse with fresh water after saltwater use.
- **Payload Management:** Do not exceed the maximum payload capacity (2kg). Secure payloads properly to prevent accidental release or instability during flight.
- **Legal Compliance:** Be aware of and comply with all local drone regulations, including airspace restrictions,

registration requirements, and privacy laws.

- **Age Restriction:** This product is intended for adult users.

4. SETUP

4.1. Battery Installation and Charging

1. Ensure the drone and remote control are powered off.
2. Open the battery compartment on the drone.
3. Insert the Lithium Polymer battery, ensuring it is correctly oriented and securely seated.
4. Close and latch the battery compartment cover firmly to maintain waterproofing.
5. Connect the battery to the charger. Plug the charger into a power outlet.
6. Allow the battery to charge fully. Refer to the charger's indicator lights for charging status.

4.2. Remote Control Preparation

1. Install batteries into the remote control (if not already installed).
2. Power on the remote control.
3. Follow the instructions in the remote control's specific manual for pairing with the FD1 drone.

4.3. Camera and Payload Mechanism Attachment

1. Carefully attach the 4K camera and its gimbal to the designated mounting point on the drone.
2. Connect any necessary cables from the camera to the drone's ports, ensuring a secure connection.
3. Attach the payload release mechanism to its designated point.
4. Perform a functional check of the camera and payload release mechanism before flight.

5. OPERATING THE DRONE

5.1. Pre-Flight Checks

- Ensure batteries are fully charged in both drone and remote control.
- Verify propellers are securely attached and undamaged.
- Confirm all waterproof seals are intact and closed.
- Check GPS signal strength before takeoff.
- Ensure the flight area is clear of obstacles and people.

5.2. Takeoff and Landing

1. Place the drone on a flat, stable surface.
2. Power on the drone, then the remote control. Wait for GPS lock.
3. Initiate takeoff using the designated button or stick combination on the remote control.
4. For landing, slowly descend the drone to a clear area and power off motors after touchdown.

5.3. Flight Controls

Refer to your remote control's specific manual for detailed stick configurations and button functions. Common controls include:

- **Throttle:** Controls altitude (up/down).
- **Yaw:** Rotates the drone left or right.

- **Pitch:** Moves the drone forward or backward.
- **Roll:** Moves the drone left or right (sideways).

5.4. Camera Operation

- The integrated 4K camera captures high-resolution video (MP4) and still images (JPEG).
- Control camera functions (start/stop recording, take photos) via the remote control or a connected FPV app.
- Ensure a compatible SD card is inserted into the camera before use.

5.5. Payload Release

The payload release mechanism is controlled via a dedicated button on the remote control. Ensure the payload is securely attached before flight and released only when the drone is in a stable position over the target area.

6. MAINTENANCE

6.1. Cleaning

- After use, especially in saltwater, rinse the drone thoroughly with fresh water.
- Wipe the drone dry with a soft, clean cloth.
- Inspect propellers for any debris or damage and clean as necessary.
- Ensure camera lens is clean and free of smudges.

6.2. Battery Care and Storage

- Store batteries in a cool, dry place, away from direct sunlight and extreme temperatures.
- For long-term storage, charge batteries to approximately 50-60% capacity.
- Do not store fully charged or fully depleted batteries for extended periods.

6.3. General Inspection

- Regularly check all screws and connections for tightness.
- Inspect the drone's body for cracks or damage.
- Replace damaged propellers immediately.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Drone does not power on.	Battery not charged or improperly installed.	Ensure battery is fully charged and correctly inserted. Check battery compartment seal.
Remote control not connecting.	Remote control batteries low or not paired.	Replace remote control batteries. Re-pair the remote control with the drone according to its manual.
Drone unstable during flight.	Damaged propellers, strong winds, or calibration issue.	Inspect and replace damaged propellers. Avoid flying in strong winds. Perform IMU calibration as per drone's advanced manual.
Camera not recording/taking photos.	No SD card, full SD card, or camera not connected.	Insert a compatible SD card. Format or replace the SD card. Check camera connections.

Problem	Possible Cause	Solution
Charger not working.	Faulty charger or power source.	Try a different power outlet. If the issue persists, contact Swellpro support for charger replacement.

8. SPECIFICATIONS

Brand	Swellpro (Manufacturer)
Model Name	FD1
Special Feature	Waterproof fishing drone with long-range, high-quality camera, and payload release mechanisms
Age Range (Description)	Adult
Color	FD1 FPV
Video Capture Resolution	4K
Connectivity Technology	Wi-Fi
Skill Level	Beginner
Item Weight	5 Kilograms (approx. 11 pounds)
Battery Capacity	4500 Milliamp Hours (Lithium Polymer)
Video Capture Format	MP4
Remote Control Technology	Wi-Fi
Maximum Range	1.6 Kilometers
Material	ABS
Supported Image Format	JPEG
Product Dimensions	50"L x 20"W x 40"H
UPC	718519205396
ASIN	B0BQYWJDMJ
Date First Available	December 23, 2022

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or visit the official Swellpro website. Swellpro products typically come with a limited warranty covering manufacturing defects.

If you encounter any issues or require technical assistance, please contact Swellpro customer support directly. Contact details can usually be found on their official website or in your product packaging.

Note: As per customer feedback, warranty and support services may vary. It is recommended to retain your proof of purchase for any warranty claims.

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